Worksheet1. Connectives.

- 1. Prove that \wedge can be defined in terms of \neg and \vee . That is prove that the formula $P \wedge Q$ is equivalent to a formula containing only the variables P and Q and \neg and \vee .
- 2. Prove that all binary connectives can be defined in terms of \neg and \lor and \land , and by 1. all binary connectives can be defined in terms of \neg and \lor (how many binary connectives are there?).